

Title (en)

INK DISCHARGING APPARATUS AND INK DISCHARGING METHOD

Title (de)

TINTENAUSGABEVORRICHTUNG UND -AUSGABEVERFAHREN

Title (fr)

APPAREIL DE DÉCHARGE D'ENCRE ET PROCÉDÉ DE DÉCHARGE D'ENCRE

Publication

EP 3210781 A2 20170830 (EN)

Application

EP 17153971 A 20170131

Priority

- JP 2016018252 A 20160202
- JP 2016219139 A 20161109

Abstract (en)

Provided is an ink discharging apparatus configured to discharge an active-energy-ray-curable ink from an ink discharging head of which members to contact the ink are joined using an epoxy adhesive, wherein the ink contains at least any one selected from the group consisting of an acrylamide compound and an N-vinyl compound, and wherein an elastic modulus decreasing rate represented by a formula (1) below is 50 percent or less, Elastic modulus decreasing rate % = E 1 ## E 2 / E 1 × 100 where E 1 represents an elastic modulus (GPa) of a cured product obtained by curing the epoxy adhesive at 90 degrees C for 4 hours, and E 2 represents an elastic modulus (GPa) of an immersed product obtained by immersing the cured product in the ink at 60 degrees C for 4 weeks.

IPC 8 full level

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CPC (source: CN EP US)

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B41J 2/14 (2013.01 - US)

Citation (applicant)

- JP 2006257350 A 20060928 - KONICA MINOLTA HOLDINGS INC, et al
- JP 2013018853 A 20130131 - SEIKO EPSON CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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EP 3210781 A2 20170830; EP 3210781 A3 20180103; EP 3210781 B1 20181121; CN 107020805 A 20170808; CN 107020805 B 20180911;
CN 109177492 A 20190111; CN 109177492 B 20200911; US 10029461 B2 20180724; US 2017217181 A1 20170803

DOCDB simple family (application)

EP 17153971 A 20170131; CN 201710057251 A 20170126; CN 201810894036 A 20170126; US 201715419162 A 20170130